

Subject : USSR/Aeronautics - aerial photography AID P - 4601  
Card 1/1 Pub. 135 - 13/23  
Author : Timchenko, D. D., Cpt. of tech. service  
Title : Operation of photographic equipment of aircraft  
Periodical : Vest. vozd. flota, 3, 67-70, Mr 1956  
Abstract : The training of flying personnel in operation and maintenance of photographic equipment during photo-bombing and photo-reconnaissance and how to eliminate some defects in their operation are described in this article. The article is of informative value.  
Institution : None  
Submitted : No date

TIMCHENKO, D.D., kapitan tekhnicheskoy sluzhby.

Use of photographic equipment of airplanes. Vest.Vozd.Fl. 38  
no.3:67-70 Mr '56. (MLRA 9:8)  
(Photography, Aerial)

TIMCHENKO, N.G. (Alupka)

Rigid pneumothorax and its prevention. Vrach. delo no.12:129-131  
D '60. (MIRA 14:1)

1. Sanatoriy "Solnechnyy" i kafedra ftiziatriti Kiyevskogo meditsinskogo instituta.  
(PNEUMOTHORAX)

TIMCHENKO, F.G., aspirant

External respiration in patients with rigid artificial pneumo-  
thorax. Probl.tub. no.5:110-111 '61. (MIRA 15:1)

1. Iz kafedry ftiziatriti (zav. - prof. V.P. Rudin) Kiyevskogo  
meditsinskogo instituta (dir. - dotsent I.P. Alokseyenko).  
(PNEUMOTHORAX) (RESPIRATION)

TIMCHENKO, G.A.; TRIML', A.G.

Poplar pests in the eastern part of the Ukraine and Crimea.  
Ent. oboz. 42 no.4:793-810 '63. (MIRA 17:8)

1. Kafedra entomologii Khar'kovskogo gosudarstvennogo uni-  
versiteta, Khar'kov.

TINCHENKO, G. K.

"Treatment of Suppurating-Infected Wounds and Foci With Aspergillin."  
Cand Med Sci, Kaur'kov Medical Inst, Khar'kov, 1955. (RL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical  
Dissertation Defended at USSR Higher Educational Institutions  
(14)

TIMCHENKO, G.K., kand.med.nauk (Khar'kov, ul.Studencheskaya, d.4, kv.111)

Significance of the reaction to hyaluronidase in septic surgery.  
Nov.khir.arkh. no.4:37-43 J1-Ag '59. (MIRA 12:11)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof.A.Z.TSeytlin)  
Khar'kovskogo meditsinskogo instituta.  
(HYALURONIDASE) (ASPERGILLIUS) (SUPPURATION)

TIMCHENKO, G.K., (Khar'kov, ul. Tolkachevskya, d.4, kv.111)

Hepatocholangioduodenostomy with inclosed drain as an emergency operation  
in obstruction of the extrahepatic bile ducts. Nov.khir.arkh. no.3:  
98-99 My-Je '58 (MIRA 11:9)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.Z. TSeytlin)  
Khar'kovskogo meditsinskogo instituta.  
(BILIARY TRACT--SURGERY)

TIMCHENKO, G.K.

Treating open injuries of the Achilles tendon. Ortop.travm.i  
protez. 21 no.3:19-21 Mr '60. (MIRA 14:3)

1. Iz kafedry khirurgii No.1 (zav. .. prof. V.A.Kartavin) Ukrainskogo  
instituta usovershenstvovaniya vrachey (dir. - dotsent I.I.Ovsiyenko).  
(TENDON OF ACHILLES---WOUNDS AND INJURIES)

1. TIMCHENKO, I. I.

27292: TIMCHENKO, I. I. O travmaticheskom perikardite krupnogo rogatogo skota. (Po povodu  
odnoim. Statey I. F. Zayanchkovskogo v zhurn. Veterinariya, 1946, No. 7, I. V. F.  
Bervi v Zhurn. Veterinariya, 1947, No. 7) Veterinariya, 1949, No. 7, s. 46.

SO: Letopis' Zhurnal'nykh statey, Vol. 36, 1949

TIMCHENKO, I. I.

27292

O Travmatichyeskom. Perikarditye Krujnogo Rogatogo Skota [Po Povodu Odnoim Statyey  
I. F. Zayanchkovskogo V. Shurn. "Vyetyerinariya", 1946 No. 7, IV. F. Byervi I Zhurn.  
"Vyetyerinariya", 1947, No. 7] Vyetyerinariya, 1949, No. 9, S. 46.

SO: LETOPIS NO. 34

TIMCHENKO, I. I.

"On traumatic pericarditis of cattle."

SO: Veterinariya 26 (9), 1949, p. 46

44179

S/181/62/004/012/036/052  
B125/B102

248100  
AUTHORS:

Timchenko, I. N., and Shalyt, S. S.

TITLE:

The thermoelectric properties of tellurium and the effective mass of the holes

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 12, 1962, 3612-3617

TEXT: The effect of annealing and surface etching of tellurium single-crystals, with carrier concentration varying from  $10^{14}$  to  $10^{19}$   $\text{cm}^{-3}$ , on the thermo-emf  $\alpha$  is studied between 77 and 200°K. The method adopted for measuring the thermo-emf above nitrogen temperature was that described in a previous work of the authors (FTT, 4, 934, 1962). Both the annealing (160 hours at 350°C) and the etching of the surface (with chromium etchants) increase the thermo-emf considerably. The smaller the concentration, the greater is the effect of annealing throughout the range of concentration investigated ( $3 \cdot 10^{14}$  -  $8 \cdot 10^{18}$   $\text{cm}^{-3}$ ). The abnormal dependence on the concentration in specimens with  $n < 10^{16}$   $\text{cm}^{-3}$ , observed earlier, was due to defects. The deviation of the slope of the straight lines  $\alpha(\ln T)$  from the theoretical formula

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The thermoelectric properties ...

S/181/62/004/012/036/052  
B125/B102

$$\alpha = \frac{k}{e} \left[ r + 2 + \ln \frac{2(2\pi m^* kT)^{3/2}}{n h^3} \right], \quad (1)$$

for nondegenerate semiconductors is due either to residual defects of structure or to the temperature dependence of the effective mass. The temperature dependence of the thermo-emf of degenerate specimens differs only slightly from the theoretical value  $\alpha = (k/e)(\pi^2/3)(kT/\mu)$ . In the simple case of an energy dependence of the free path  $l \sim \epsilon^r$ , the effective mass can be determined at  $T > 150^\circ\text{K}$  from the formula for  $\alpha$

$$\alpha = \frac{k}{e} \left[ \frac{r+2}{r+1} \frac{F_{r+1}(\mu^*)}{F_r(\mu^*)} - \mu^* \right] \quad (1a).$$

At lower temperatures and with concentrations exceeding  $10^{16} \text{ cm}^{-3}$  both the thermal and the impurity mechanism must be taken into account.  $\alpha$  of nondegenerate semiconductors is likely to decrease with increasing carrier concentration. With concentrations between  $10^{15}$  and  $10^{19} \text{ cm}^{-3}$ , and at temperatures from 100 to  $200^\circ\text{K}$ , the effective mass of the holes is likely

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The thermoelectric properties ...

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to be in the interval  $m^* = (0.35 \text{ to } 0.45)m_0$ . There are 4 figures and  
1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of  
Semiconductors AS USSR, Leningrad)

SUBMITTED: July 13, 1962

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24.7600  
9(3), 24(3)

AUTHORS: Timchenko, I. N., Shalyt, S. S.

67321

SOV/101- 1-8-26/32

TITLE: The Influence of Entrainment of Current Carriers by Phonons<sup>21</sup>  
Upon the Thermoelectromotive Force of Tellurium<sup>21</sup>

PERIODICAL: Fizika tverdogo tela, 1959, Vol 1, Nr 8,  
pp 1302 - 1304 (USSR)

ABSTRACT: L. E. Gurevich (Ref 1) was the first to investigate theoretically the interaction of the irregular phonon distribution with the current carriers. This phenomenon, termed "entraining effect", has also been observed experimentally in some semiconductors (Ge, Si, InSb, MoS<sub>2</sub>, ZnO). According to C. Herring's theory (Ref 3), the entire thermoelectromotive force of a semiconductor with low current - carrier concentration may be written as the sum  $\alpha = \alpha_e + \alpha_{ph}$ , where  $\alpha_e$  denotes the usual thermoelectromotive force of the electron gas and  $\alpha_{ph}$  the additional thermoelectromotive force caused by entrainment of the current carriers by long-wave phonons, i.e.

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$$\alpha_{ph} \approx \frac{\tau_{ph}}{\tau_e} \left( \frac{m^* v_s^2}{2} \right) \left( \frac{3}{2} kT \right).$$

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The Influence of Entrainment of Current Carriers by  
Phonons Upon the Thermoelectromotive Force of Tellurium

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The compound fraction denotes the ratio between the energy of the current carrier moving in the crystal with sonic velocity  $v_s$  and its thermal energy.  $\tau_{ph}$  denotes the mean relaxation time of the long-wave phonons which interact with the entire phonon spectrum of the solid, and  $\tau_e$  denotes the mean relaxation time of the electrons which interact only with the long-wave region of this spectrum.  $\alpha_{ph}$  may be noticeable in addition to the background of the usual thermoelectromotive force of the semiconductor and sometimes even attain values of the order of some hundred  $\mu V/deg$ . The increase of  $\alpha_{ph}$  with decreasing temperature is determined by the temperature dependence of the ratio  $\tau_{ph}/T\tau_e$ . In the theoretical investigation of the dependence  $\tau_{ph}(T)$  the crystal symmetry has to be considered. At very low temperatures  $\alpha_{ph}$  must pass through a maximum and then begin to drop with decreasing temperature as  $1/T\tau_e$ . In the case of scattering on acoustic phonons this section of the curve must

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The Influence of Entrainment of Current Carriers by  
Phonons Upon the Thermoelectromotive Force of Tellurium

SOV/101-1-8-26/32

approach the ideal form  $\alpha_{ph} \sim T^{0.5}$ . However, in the experiment  $\alpha_{ph}$  may decrease more rapidly than according to the ideal law  $\alpha_{ph} \sim T^{0.5}$ , and the maximum of the  $\alpha_{ph}(T)$  curve may be shifted toward higher temperatures. Making reference to Herring's theory, the temperature dependence  $\alpha_{ph}(T)$  for tellurium should asymptotically approach the form  $\alpha_{ph} \sim T^{-(3-\beta)}$  toward higher temperatures, and toward lower temperatures it should decrease more rapidly than according to the ideal law  $\alpha_{ph} \sim T^{0.5}$ . At temperatures of liquid nitrogen the current-carrier concentration was  $\sim 7.10^{14} \text{ cm}^{-3}$ . On the basis of the experimental course of the curve  $\alpha(T)$  in the range 160 - 800K and also of S. S. Shalyt's (Ref 4) results on the Hall coefficient R in the temperature range 80 - 20K,  $\alpha_e$  was extrapolated to the temperature range below 700K (down to 80K). For the tellurium sample, under consideration the asymptotic value of the exponential coefficient is -2.7, which is in good agreement with Herring's theory; the descending branch of the curve is characterized

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The Influence of Entrainment of Current Carriers by  
Phonons Upon the Thermoelectromotive Force of Tellurium

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SOV/181-1-8-26/32

by the exponential coefficient  $+0.7$ . There are 1 figure and  
4 references, 2 of which are Soviet.

ASSOCIATION: Institut poluprovodnikov, Leningrad (Institute of Semiconductors,  
Leningrad)

SUBMITTED: April 24, 1959

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Card 4/4

TIMCHENKO, I.N.; SHALYT, S.S.

Thermoelectric properties of tellurium and the effective mass  
of hole carriers. Fiz.tver.tela 4 no.12:3612-3617 D '62.  
(MIRA 15:12)

1. Institut poluprovodnikov AN SSSR, Leningrad.  
(Thermoelectricity) (Tellurium)

BRAVERMAN, E.M. (Moskva); TIMCHENKO, I.N.; AVER'AYANOV, G.B. (Kirovograd)

Criticism and bibliography. Fiz. v shkole 23 no.5:104-108  
S-0 '63. (MIRA 17:1)

1. Gornyy tekhnikum, Prokop'yevsk (for Timchenko).

TIMCHENKO, I. N.; SHALYT, S. S.

Thermoelectric properties of tellurium at low temperatures.  
Fiz. tver. tela 4 no.4:934-945 Ap '62.

(MIRA 15:10)

1. Institut poluprovodnikov AN SSSR, Leningrad.

(Tellurium—Electric properties)  
(Low temperatures)

26 2253

30877  
S/181/62/004/004/014/042  
B104/B108

AUTHORS: Timchenko, I. N., and Shalyt, S. S.

TITLE: Thermoelectric properties of tellurium at low temperatures

PERIODICAL: Fizika tverdogo tela, v. 4, no. 4, 1962, 934 - 945

TEXT: The thermoelectric properties were determined on six tellurium specimens (five single crystals and one coarse-grained polycrystal) with carrier concentrations between  $3 \cdot 10^{14}$  and  $8 \cdot 10^{18} \text{ cm}^{-3}$  between 2 and  $300^\circ\text{K}$ . The measurements were made with the heat flow perpendicular to the direction of the major crystallographic axis. Results: At low temperatures, the thermoelectric properties of tellurium cannot be explained without taking the carrier entrainment by phonons into account. The phonon and diffusion components of the thermo-emf fit the theories of C. Herring (Phys. Rev., 95, 954, 1954; 96, 1163, 1954), and V. L. Gurevich and Yu. A. Firsov (Fiz. Tverd. Tela, 4, 530, 1962) regarding the temperature dependence and anisotropy of the entrainment effect in tellurium. The decrease in phonon contribution to the thermo-emf with increasing carrier concentration is

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Thermoelectric properties of ...

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essentially due to phonon scattering by the carriers. Electron gas degeneracy leads to a decrease of the diffusion thermo-emf component. In a specimen with a carrier concentration of  $10^{19} \text{ cm}^{-3}$ , the entrainment effect augments the thermo-emf of tellurium between 10 and 200K. The diffusion thermo-emf at lower temperatures is described by the simple formula for the thermo-emf of a metal. Phonon component and heat conductivity are considerably increased by annealing. V. L. Gurevich, Yu. N. Obratsov, and Yu. A. Firson are thanked for discussions and advice. There are 7 figures and 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: November 27, 1961

Card 2/2

TIMCHENKO, I.P.

Symposium on the Physicomechanical Properties of Rocks in the  
Upper Part of the Earth's Crust. Izv. AN SSSR. Ser. geol. 30  
no.3:152-158 Mr '65.  
(MIRA 18:3)

ZALESSKIY, B.V.; TIMCHENKO, I.P.

Physicomechanical properties of certain types of massive  
essentially quartz rocks. Trudy IGEM no.43:33-46 '61.

(Quartz)

(MIRA 14:10)

TIMCHENKO, I.P., inzh.

Lever drives of the slag traps of DKV 6.5 13 boilers. Energetik  
9 no.3:10-11 Mr '61. (MIRA 14:7)

(Boilers)

ZALSSKIY, B.V.; TIMCHENKO, I.P.

Structural-lithological characteristics and physical-mechanical  
properties of carbonates in the Sok deposit. Trudy IGEM  
no. 13:49-60 '58.

(Sok Valley--Carbonates(Mineralogy))

(MIRA 11:7)

TIMCHENKO, I. Ye.

USSR/ Engineering - Construction machines

Card 1/1 Pub. 133 - 6/19

Authors : Timchenko, I. Ye., Senior Engineer of the Main Line Cable Administration

Title : A ditch-filling (leveling) machine for cable main lines

Periodical : Vest. svyazi 4 (181), 11-12, Apr 1955

Abstract : The construction of a special machine designed for filling cable main-line ditches is described. Diagrams.

Institution : .....

Submitted : .....

TIMCHENKO, Ivan Yemel'yanovich; KULESHOV, V.N., otv.red.; PETROVA, V.Ye.,  
red.; MARKOCH, K.G., tekhn.red.

[Operation of line equipment of main communication cables]  
Ekspluatatsiia lineinykh sooruzhenii kabel'nykh magistralей  
sviazi. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio,  
1959. 134 p. (MIRA 12:12)

(Electric lines)

TIMCHENKO, K.G.

Single-stage closure of a vesicovaginal-rectal fistula of gunshot origin with late results after six years. Khirurgiia 34 no.12:69-74 D '58.

(MIRA 12:1)  
1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.Z. TSeytlin)  
Khar'kovskogo meditsinskogo instituta (dir. - dots. I.F. Kononenko).

(FISTULAS, VESICOVAGINAL, etiol. & pathogen.

gunshot wound causing vesicovaginal-rectal fistula, single  
stage closure (Rus))

(RECTUM, fistula  
same)

(WOUNDS AND INJURIES, compl.

gunshot inj. causing vesicovaginal-rectal fistula, single-  
stage closure (Rus))

KHEYFITS, A.B.; TIMOSHENKO, L.A.

Pre- and postoperative application of therapeutic sleep. Khirurgia,  
Moskva no.3:15-18 Mar 1952.  
(OLML 22:1)

1. Docent for Kheyfits.

PHETITS, A.B.(DOCENT), TIKHOMIROV, I.I.

Sleep

Pre-and postoperative application of therapeutic sleep. Khirurgiia no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Uncl.

MEYER, A.B. DOCTOR, TRINIDAD, L.A.

Operations, Surgical

Pre-and postoperative application of therapeutic sleep. Khirurgia no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August, 1952. <sup>XX</sup> 1953, Uncl.

NAGORNYI, V.T.; MAKHAN'KO, A.V.; KAREL'SKAYA, V.F.; TIMCHENKO, I.A.

Feeding fattening pigs with crude sugar beets. Veterinariia  
39 no.10:73-74 0 '62. (MIRA 16:6)

1. Belotserkovskiy sel'skokhozyaystvennyy institut.  
(Sugar beets)  
(Swine--Feeding and feeds)

TIMCHENKO, L.V.

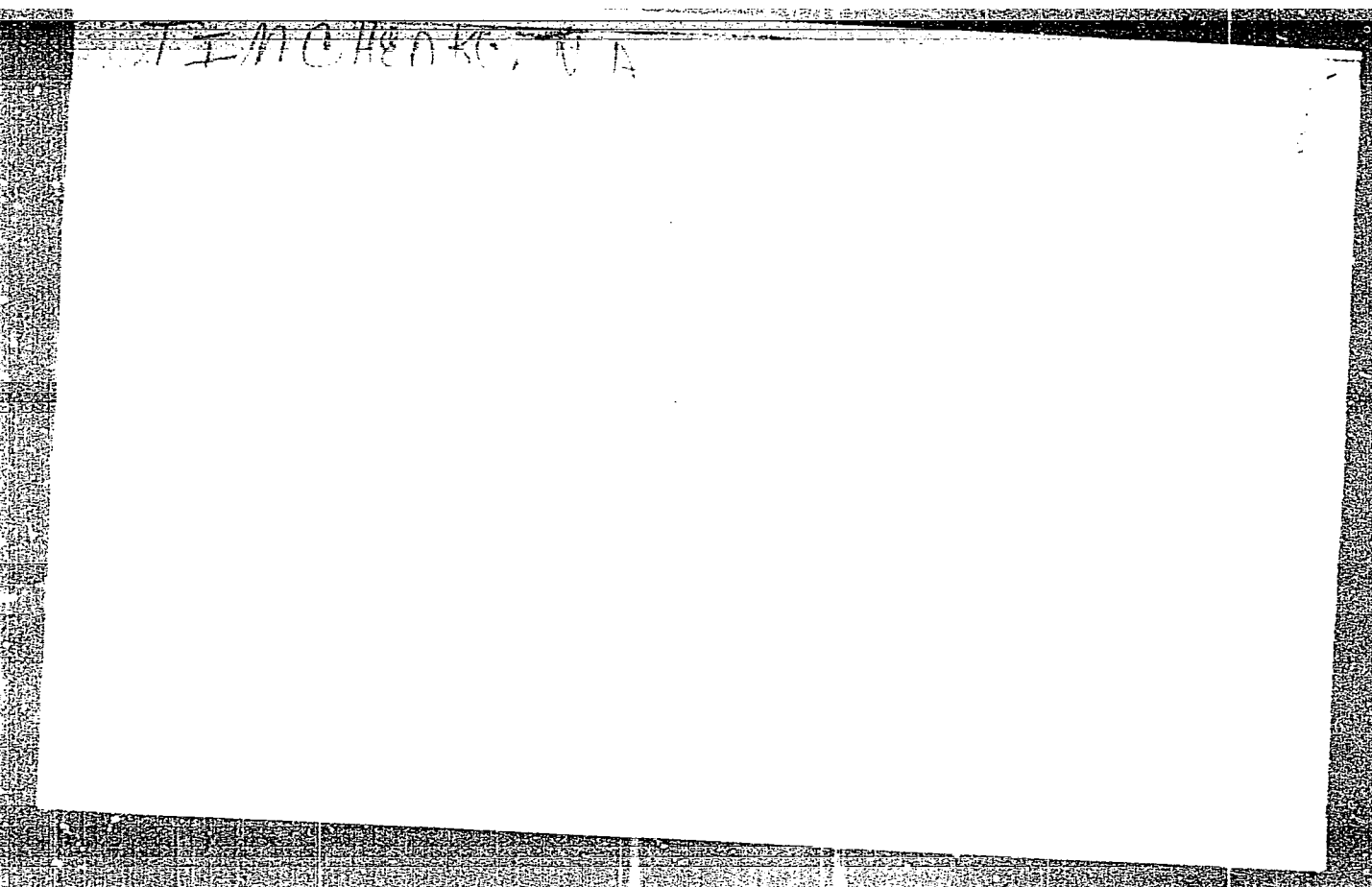
Operators of wire-broadcasting networks exchange their experiences.  
Vest. sviazi 20 no.5:13 My '60. (MIRA 13:12)

1. Starshiy inzhener Nikolayevskoy direktsii radiotranslyatsionnykh  
setey.

(Wire broadcasting)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710012-2



APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710012-2"

TIMCHENKO, N.A.

2425\* Rational and Economical Regimes for Annealing Die  
Blanks of Steel 5KhNT. Ratsional'nye i ekonomichnye re-  
himy otzhluga shlampovykh zagotovok iz stali 5KhNT. (Rus-  
sian.) N. A. Timchenko. Metallovedenie i obrabotka metallov,  
1955, no. 4, Oct., p. 32-38. /VIG  
Recommended cooling and heating periods in annealing furnaces  
and their relations to hardness. Kinetics of isothermal austenitic  
transformation. Cooling conditions of surface and interior zones  
of blanks. Graphs, tables, micrographs. 2 ref. Df

TIMCHENKO, N.A., inzhener.

Efficient and economical conditions of annealing stamping die  
blanks made of 5KhNT steel. Metalloved.i obr.met. no.4: 32-38  
0 '55.

(MLRA 9:3)

(Steel alloys--Heat treatment)

KUROCHKIN, K.T., dotsent, kand.tekhn.nauk; BAUM, B.A., inzh.; KONOVALOV, A.S.,  
inzh.; POSTYKA, V.V., inzh.; TIMCHENKO, N.F., inzh.

Distribution of hydrogen and nitrogen in steel castings. Izv.vys.  
ucheb.zav.; chern.met. 2 no.2:43-49 F '59. (MIRA 12:6)

1. Ural'skiy politekhnicheskiy institut i Omskiy mashinostroitel'nyy  
zavod. Rekomendovano kafedroy metallurgii stali Ural'skogo  
politekhnicheskogo instituta.  
(Steel castings) (Gases in metals)

TIMCHENKO, H.F., KUROCHKIN, K.T., BAUM, B.A., KONOVALOV, A.C., POSTYK, V.V.

"Distribution of Hydrogen and N<sup>I</sup>trogen in Steel Castings,"  
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of  
Metallurgy, Moscow, July 1-6, 1957

L 59012-05 SW 11/1/64 1/1 (FEBRUARY 1964) 1/1

ACCESSION NR: AR5015999

UR/0058/65/000/005/HO37/HO38

SOURCE: Ref. zh. Fizika, Abs. 5Zh256

AUTHOR: Timchenko, N. I.

TITLE: Dependence of the transmission coefficient  $M(3,000)F_2$  on the sun's zenith angle

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964, 177-182

TOPIC TAGS: transmission coefficient, ionospheric research, zenith angle

TRANSLATION: By processing the experimental data of the Tomsk ionospheric station, the author derives a formula for the dependence of the transmission coefficient  $M(3,000)F_2$  on the zenith angle of the sun.  $M(3,000)F_2$  is well described by an exponential function, which has an argument  $LPP_2$  (height of the maximum of the parabolic layer) and which depends on the zenith angle of the sun. It is shown that a good correlation exists between  $M(3,000)F_2$  and the zenith angle of the sun, giving grounds for using the derived relationship for forecasting  $M(3,000)F_2$ .

SUB CODE: ES

ERCL: 00

Card 1/1

Ref. AR501419

REF ID: A023/A023

AUTHOR: Pimchenko, N.I.

TITLE: Distribution of electronic concentration and solar activity

SOURCE: Russ. Zh. Geofizika, Abs. 2A179

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964, 183-185

TOPIC TAGS: ionosphere, F2 layer, solar activity, sunspot, electron concentration

ABSTRACT: Results are presented of a study of altitudinal variations of the ionization-limitation phenomenon in the F region of the ionosphere during solar activity. Use was made of observations carried out in 1964, on the basis of which the MUF profiles were plotted. Data for June, July, August, and September of 1964 were studied. As compared with the maxima in the F2 layer, a different relationship is noted between the electron concentration at fixed levels and the number of sunspots. A preliminary deduction was made to the effect that at levels below

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L 57016-69

ACCESSION NR: AR016449

F2 maximum the limitation phenomenon sets in during periods of lower average  
monthly numbers of sunspots than at the maximum. - Thompson

ENCL: CO

SUB CODE: ES

Card

*phc*  
2/2

L 43719-66 ENT(1)/FOU GW

ACC NR: AT6023733

SOURCE CODE: UR/2831/65/000/014/0129/0140

AUTHOR: Likhachev, A. I.; Yelizar'yev, Yu. N.; Yagorova, G. V.; Timchenko, N. I.

ORG: none

TITLE: Dependence of ionospheric parameters on the admission of solar radiation into the earth's atmosphere

SOURCE: AN SSSR. Mezhdunarodnyy geofizicheskiy komitet. V razdel programmy  
MGG: Ionosfera. Sbornik statey, no. 14, 1965. Ionosfernyye issledovaniya, 129-140

TOPIC TAGS: F layer, solar radiation effect, atmospheric ionization

ABSTRACT: This article presents data from a study of the relations between ionization parameters of the F2 layer and the zenith angle of the sun and the influx of solar energy into the earth's atmosphere. An investigation of the time variations of the diurnal increment of ionization, which represents the difference between critical frequencies at the maximum (midday hours) and minimum of the diurnal variation, showed that the maximal value of the increment of ionization is reached during the winter and the minimal value during the summer, and that during the year the change in the increment correlates well with the change of the sine of the zenith angle of the sun; the maximal values of the diurnal increment observed during the winter

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L 4:719-66

ACC NR: AT6023733

months change in proportion to solar activity, and during the summer months the increment remains approximately constant regardless of solar activity. On the basis of the widely held concept, confirmed by large-scale ionospheric observations, that the principal agent of ionization at the level of the F2 layer is solar wave radiation, a method of investigation is given to elicit the dependence of the state of ionization on the level of the wave radiation of the sun. It was found that the basic parameters characterizing the state of ionization are associated with the zenith angle and level of solar radiation, that the duration of illumination affects the state of ionization and the establishment of the phenomenon of limitation of an increase of ionization in the F2 layer, and that a radiation-type equilibrium state exists in the ionosphere during years of maximal solar activity and during the summer at moderate activity. It would be desirable to introduce into the annual data-analysis reports a section on the detection of a relation between ionization parameters and the level of wave radiation for each station based on the method presented. Orig. art. has: 9 figures and 12 formulas.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 020/ OTH REF: 004

Card 2/2 hs

L 04287-67 EWT(1)/FCC GW

ACC NR: AR6004674

SOURCE CODE: UR/0269/65/000/010/0048/0049

AUTHOR: Timchenko, N. I.

TITLE: Solar activity and the distribution of electron concentration

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.345

REF SOURCE: Tr. Sibirek. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964, 183-185

TOPIC TAGS: solar activity, ionospheric electron density, sunspot

ABSTRACT: The variation with altitude of the limitation of ionization in the F region of the ionosphere during high solar activity is investigated. Observations in Tomsk were utilized according to which the profile  $N(z)$  was constructed. Data from June--September and December 1957--1960 are considered. The dependence of the electron concentration at fixed levels on the number of sunspots differing from the  $F_2$  layer maximum is noted. A preliminary conclusion is made that at levels below the  $F_2$  layer maximum the limitation phenomenon begins with smaller magnitudes of the mean monthly number of sunspots than at the level of the layer maximum. Bibliography of 6 citations. L. Shoh, [Translation of abstract]

SUB CODE: 03

Card 1/1

UDC: 523.75:525.23

TIMCHENKO, N.K., inzh.

Principles of the mechanical separation of grains of crushed  
stone and gravel according to elasticity and friction. Stroi.  
mat. 8 no.4:17-19 Ap '62. (MIRA 15:8)  
(Stone, Crushed) (Gravel) (Separators (Machines))

SAMEYSHCHEV, A.A., inzh.; SOKOL'SKIY Ye.I., inzh.; FIRSOVA, L.N., inzh.;  
TIMCHENKO, N.K., inzh.; NISNEVICH, M.L., kand.tekhn.nauk

Concentrating limestone with the aid of a mechanical classifier.  
Stroi. mat. 7 no.4:23-26 Ap '61. (MIRA 14:5)  
(Limestone) (Sorting devices)

NISNEVICH, M.L., kand.tekhn.nauk; TIMCHENKO, N.K., inzh.; FIRSOVA, L.N.,  
inzh.; KALASHNIKOVA, T.V.; inzh.; KUZ'MINA, V.M., inzh.

Dressing limestone found near Moscow so as to obtain high-quality  
aggregates for concrete. Sbor. trud. NIIZHelezobetona no.3:3-41  
'60. (Limestone) (Aggregates (Building materials)) (MIRA 15:2)

TIMCHENKO, N.K., inzh.; KALASHNIKOVA, T.V., inzh.; NISNEVICH, M.L., kand.-  
tekhn.nauk

Development of rapid methods of determining the strength of stone,  
crushed stone and gravel. Sbor. trud. NIIZhelezobetona no.7:  
87-124 '62. (MIRA 16:1)

(Stone--Testing)

TIMCHENKO, N.S. (Ufa); PIROGOV, L.S., professor, zaveduyushchiy.

Erythrocyte sedimentation and its relation to the number of erythrocytes.  
Klin.med. 31 no.8:51-57 Ag '53. (MLRA 6:11)

1. Kafedra fiziologii zhivotnykh Bashkirskogo sel'skokhozyaystvennogo instituta.  
(Blood--Sedimentation)  
(Blood--Corpuscles and platelets)

, ... 9.

Timchenko, N. S.

"A study of the Effect of Erythrocytotoxicoses and Erythrocytoses on the  
Production of Nursing Mares." Min Higher Education. Kazan' State Veterinary  
Inst imeni N. I. Pashan. Ufa, 1958. (Dissertation for the Degree of  
Candidate in Biological Sciences)

Sp: Knizhnaya letopis' no. 21, 2 July 1955

CA

14

Causes of formation of dark flakes in mineral water.  
A. V. Reislér and N. V. Timchenko. *Gigiena i Sanit.*  
1949, No. 8, 30-2.—Bottled mineral waters packaged in  
U.S.S.R. frequently display dark particle formation  
after storage. These are identified as  $Fe(OH)_3$  formed by  
action of the alk. water upon imperfectly protected Fe-  
contg. stoppers commonly used. G. M. Kowalipoff

ZYMALEV, G.S.; TIMCHENKO, O.G.

Improving the boring of deep holes in Krivoy Rog Basin mines.  
Gor. zhur. no.2:39-42 F '65. (MIRA 18:4)

1. Upravlyayushchiy trestom Dzerzhinskrua (for Zymalev).
2. Nachal'nik nauchno-issledovatel'skoy laboratorii tresta Dzerzhinskrua (for Timchenko).

BALASH, R.; SKRIPETS, R. [Skrypets', R.], starshiy inzh.; TIMCHENKO, O.  
[Tymchenko, O.], tekhnik

Glazing bricks made of raw materials with a high moisture content.  
Sil'.bud. 11 no.6:20-21 Je '61. (MIRA 14:7)

1. Nachal'nik budivel'noi dil'nitsi Bilokurakins'koi mizhkolgospnoi  
budivel'noi organizatsii Lugans'koi oblasti (for Balash). 2. Viddil  
geologorozviduval'nikh robit i tekhdopomogi "Ukrsil'gosptekhniki"  
(for Skripets, Timchenko).

(Brickmaking)

SANIYAN, A.Yu.; TIMCHENKO, O.I.

Vibration grinding apparatus. Bum. i det. prom. no. 1:50-52 32.02  
'64. (MIRA 17:6)

TIMCHENKO, O.I.

New apparatus for beating sulfate pulp. Sum. i der. prom. no.  
4:55-56 O-D '63. (MIRA 17:3)

TIMCHENKO, P.

Developing machine for amateur motion-picture photographers.  
IUn.tekh. 4 no.6:43-46 Je '60. (MIRA 13:9)  
(Motion-picture photography--Developing and developers)

SMIRNOV, G., kand.tekhn.nauk; TIMCHENKO, P., inzh.

Inspection of hydraulic marine structures. Mor. flot  
20 no. 12:32-33 D '60. (MIRA 13:12)  
(Hydraulic structures--Maintenance and repair)  
(Photography, Underwater)

124-58-6-6709

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 59 (USSR)

AUTHOR: Timchenko, P. F.

TITLE: The Use of Cinematography for Wave Investigations (Primeneniye kinos'yemki pri vdnovykh issledovaniyakh)

PERIODICAL: Sb. tr. Mosk. inzh.-stroit. in-t, 1957, Nr 20, pp 114-119

ABSTRACT: Techniques for the investigation of waves on a water surface by means of moving pictures are described and the possible errors are estimated.

V. D. Sokolov.

1. Water waves--Analysis 2. Motion picture photography

Card 1/1

1. TIMCHENKO, P.F.
2. USSR (600)
4. Karakul Sheep
7. Organizing a flock a karakul ewes. Kar. i zver N 6 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

L 04005-67 EWT(1)/EWT(m) SCTB DD/GD

ACC NR: AT6024958

(N)

SOURCE CODE: UR/0000/65/000/000/0069/0072

34

B 1 1

AUTHOR: Smirnov, G. N.; Timchenko, P. F.

ORG: none

TITLE: Investigation of marine hydraulic structures

SOURCE: AN SSSR. Okeanograficheskaya komissiya. Sektsiya podvodnykh issledovaniy. Razvitiye morskikh podvodnykh issledovaniy (Development of underwater marine research). Moscow, Izd-vo, Nauka, 1965, 69-72

TOPIC TAGS: marine engineering, hydraulic engineering, structural engineering ,  
UNDERWATER PHOTOGRAPHY

ABSTRACT: This article describes the advantages of using aqualungs to inspect the underwater components of hydraulic structures and to determine the extent of damage, thickness of alluvium, and to some extent, to estimate the strength of concrete. From the photographs and the motion picture photographs that the diver takes, the hydraulic engineer can solve the problem of the need and the most efficient method of restoring the structures. The authors consider that the introduction of this new method for inspecting marine hydraulic structures is very important since it reduces the time and cost of inspection and will help to prolong the service life of the structures.

SUB CODE: 14,13 / SUBM DATE: 06Dec65

Card 1/1

SKLYAROVA, V.K., otvetstvennyy redaktor; SHESTAKOV, V.A., redaktor;  
ARALOVA, V.I., redaktor; RAZUMOVSKAYA, S.V., redaktor; TIMCHENKO, P.I.  
redaktor; TURCHANOVSKAYA, L.F., redaktor; GOLIKOVA, N.A., redaktor;  
SARKISYAN, P.A., redaktor; SHTERENBERG, A.P., redaktor; MEDVEDEVA,  
L.A., tekhnicheskiiy redaktor.

[Children's clothes] Detskaya odevnitsa. Moskva, [Izd.Gos.nauchno-  
tekh.nizd-va M-va legkoi promyshl.SSSR] 1957. 64 p. , 1 fold.pattern.  
(Clothing and dress) (MLRA 10:5)

TIMCHENKO, R.I.; DENISOVA, Yu.I.

Give the children pretty and comfortable clothes! Tekst. prom.  
19 no.11:17-19 N '59. (MIRA 13:2)

(Children's clothing)

BURMISTROV, M.I.; TIMCHENKO, P.K.

Uterine-abdominal fistulas. Akush. i gin. 40 no.1:138-139  
Ja-F '64.

(MIRA 17:8)

1. Khirurgicheskoye otdeleniye (zav. - kand. med. nauk D.L.  
Farmenkov) bol'nitsy Leningradskogo zavoda irani XXII s"yezda  
Kommunisticheskoy partii Sovetskogo Soyuza (glavnyy vrach  
V.O. Nemykina).

TIMCHENKO, R.S. [Tymchenko, R.S.]

Organization of technological information services in the Scientific and Research Institute. Leh.prom. no. 52-54 1963. (MIRA 16:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti.

LIOKUMOVICH, R.B., inzh.; TIMCHENKO, R.S.

Production and use of synthetic tanning materials in the countries  
of people's democracies. Izv. vys. ucheb. zav.; tekhn. leg. prom.  
no.3:135-145 '58. (MIRA 11:10)  
(Europe, Eastern--Tanning materials)

VASILYUK, N.Z., inzh.; BABAYEV, E.A., inzh.; TIMCHENKO, R.S.

Using the method of single-process shaping in shoe manufacture.  
Izv. vys.ucheb. zav.; tekhn.leg. prom. no.2:145-152 '58. (MIRA 11:6)

1.Kiyevskiy sovnarkhoz.  
(Shoe manufacture)

GERSHUN, M.I. [Hershun, M.I.]; KUCHERENKO, A.G. [Kucherenko, A.H.]; KOCHETOVA,  
V.G. [Kochetova, V.H.]; TIMCHENKO, R.S. [Tymchenko, R.S.]

Organization of the department for centralized shoe upper production  
in shoe factories. Leh.prom. no.2:85-88 Ap-Je '65.

(MIRA 18:10)

TIMCHENKO, S., brigadir slesarey-sborshchikov, udarnik kommunisticheskogo  
truda

Our work, our responsibility. Zhil.-kom.khoz. 12 no.6:14 Je '62.  
(MIRA 15:12)

1. Saratovskiy zavod "Gazoapparat".  
(Saratov--Gas appliances)

TIKCHENKO, S.

Radio Operators

Young short-wave operators of the Sumy Radio Club., Radio, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ~~November~~ 1953, Uncl.

ACC NR: AP6033072

SOURCE CODE: UR/0314/66/000/010/0022/0023

AUTHOR: Pocheptsova, G. G. (Candidate of technical sciences);  
Timchenko, S. V. (Engineer)

ORG: none

TITLE: Steel resistance to stress corrosion in alkaline media

SOURCE: Khimicheskoye i neftyanoye mashinstroyeniye, no. 10, 1966,  
22-23

TOPIC TAGS: <sup>ALKALI,</sup> steel corrosion cracking,, stress corrosion, corrosion  
resistance, carbon steel, low alloy steel/08T carbon steel, St. 2  
carbon steel, St. 3 carbon steel, K15 carbon steel, 20A carbon steel

ABSTRACT: Specimens of 08, ST.2, ST.3, K15, 10, 20, 40, and 20A carbon  
steels have been tested for resistance to stress corrosion at 100C in  
an aqueous solution containing 1540 g/l calcium nitrate, and 152 g/l  
ammonium nitrate for 21 days. The obtained results confirmed the  
results of previous tests in which it was established that carbon steels  
are susceptible to corrosion cracking in alkaline media. The most  
resistant was 20A steel which withstood the test for 1792 hr. In  
another series of experiments, several low-alloy steels were tested.  
The most resistant were 08T specimens. This steel withstood 3304 hr  
at 140C in a solution of: 230 g NaOH, 159 g NaCl, 1 g Na<sub>2</sub>CO<sub>3</sub>, and

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UDC: 620.194.2:661.3

ACC NR: AP6033072

849 g water without showing any visible cracks on the surface. Orig.  
art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none

Card 2/2

TIMCHENKO, T.I.; LI CHZHAO-LIN [Li Chao-ling)

Some data on the geochemistry of beryllium in pegmatites. Trudy  
Min.muz. no.13:128-134 '62. (MIRA 16:2)  
(Siberia--Triphylite)  
(Siberia--Pegmatites)

TIMCHENKO, T.I.

Alteration processes of triphylite from pegmatites in Siberia.  
Trudy Min.muz. no.13:135-146 '62. (MIRA 16:2)  
(Siberia—Triphylite) (Siberia—Pegmatites)

TIMCHENKO, T.I.

Genetic characteristics of a pegmatite deposit in Transbaikalia.  
Vest.Mosk. un. Ser. 4: Geol. 16 no.1:40-45 Ja-F '61.

(MIRA 14:3)

1. Kafedra mineralogii Moskovskogo universiteta.  
(Transbaikalia--Pegmatites)

TIMCHENKO, T.I.

Beryl alterations in pegmatites of eastern Transbaikalia. Trudy  
Min.muz. no.9:138-145 '59. (MIRA 12:6)  
(Transbaikalia--Pegmatites)  
(Transbaikalia--Beryl)

TIMCHENKO, T.I.; SIDORENKO, G.A.

Finds of zinc phosphates in pegmatites of Transbaikalia. Trudy  
Min.muz. no.13:219-223 '62. (MIRA 16:2)  
(Transbaikalia—Zinc phosphates) (Transbaikalia—Pegmatites)

TIMCHENKO V.A.

AUTHOR: Panovko, V. M., Engineer

TITLE: All-Union Conference on the hardfacing of dies for hot and cold press-forming

(16)

PERIODICAL: Svarochnoye proizvodstvo, no. 3, 1963, 44 - 45

TEXT: The First All-Union Scientific-Technical Conference on hardfacing of dies was held at Volgograd from November 27 - 29, 1962. The Conference heard the following reports: N. T. Prosvirov (VNIIPIMASH) on "Operational conditions and the type of forging dies"; L. A. Pozdnyakova (ENIKMASH) on "Problems of the durability of dies and press-forming steels"; V. A. Popov, ENIKMASH, on some structural peculiarities of carbide tools for cold extrusion and upsetting; I. I. Frumin, B. V. Danil'chenko (Institute of Electric Welding imeni Ye. O. Paton) on "Electric-slag hardfacing of some dies"; L. Kolomiets (IES imeni Ye. O. Paton) on "Reconditioning of dies by electric-slag hardfacing"; V. A. Timchenko (IES imeni Ye. O. Paton) on "A machine with program control for automatic hardfacing of forging dies"; Reports on manual arc-hardfacing of dies were delivered by N. V. Popov (Volgograd Tractor Plant), V. M. Panovko and Ye. G. Bloshkin (Moscow Experimental Welding Plant); O. D. Superko (Chelyabinsk Tractor Plant), N. I. Nikolko (Ural Heavy Machinebuilding Plant), P. M. Sapov ("Rostsel-mash"), N. I. Kuzovkova (GAZ), Yu. P. Zaytsev (ENIKMASH), V. I. Il'in (ZIL), Gopovin (Khar'kov "Svet shakhtera" Plant), and others. In a decision the Conference mentioned deficiencies connected with the subject, i.e. lack of unified electrodes; of centralized production; of unified technological instructions on the hardfacing of dies; of methods for evaluating the quality of hardfaced metal, and lack of high-quality electrodes for hardfacing cast-iron dies. The Conference decided to take steps in order to eliminate the aforementioned deficiencies.

Khishina, V. A.

Khishina, V. A. - "Atypical strains of diphtheria caused by children." Ryazan', 1955. Ryazan' Medical Inst. Acad. Sci. U.S.S.R., (Citation for degree of Candidate of Medical Science.)

On: Khishina Istomik, No 1. 26 November 1955. Ryazan'.

EWT(d)/EWP(k)/EWP(q)/EWT(m)/BDS--AFTTC/ASD--Pf-4---JD  
L 11206-63

ACCESSION NR: AP3000142

S/0125/63/000/005/0034/0042

AUTHOR: Timchenko, V. A.; Ivanov, G. P.

TITLE: Digital program control<sup>u</sup> of welders for hard facing and welding joints of intricate shape [Report at the Conference on Automatic Welding Control, Kiev, 25 December 1962]

SOURCE: Avtomaticheskaya svarka, no. 5, 1963, 34-42

TOPIC TAGS: digital program control, hard-facing dies, U-61 hard-facing welding machine

ABSTRACT: A simplified method of programming the electrode (or work) feed in building-up or complicated-configuration welding has been developed. The method uses standardized feed-path subprograms, a rather coarse (0.5-1 mm) feed per pulse, and is suitable either for a rough feed over a great length or for a precise feed over a short length. No computer or interpolator is required. A simplified method of preparing the interpolated program coded on a punched tape was patented by M. D. Litvinchuk and V. A. Timchenko (Authorship Certificate 143181, "Byulleten' izobrazheniy", No. 12, 1962). A new U-61 welding machine designed and built in the Institute of Electric Welding (see Association) is intended for building up complex dies. It has the following principal characteristics: table size - 650 x 650 mm, Card 1/2

L 11206-63  
ACCESSION NR: AP3000142

5  
table travel - 600 mm, electrode vertical feed - 400 mm, building-up rate - 15-45  
m per hr, electrode diameter - 2-4 mm, electrode feed rate - 80-240 m per hr, weld-  
ing current - 180-600 amp, arc voltage - 19-28 v, weight of the machine proper -  
1,900 kg. ShD-4 step-by-step motors and ML18-14M hydroamplifiers are used in the  
U-61 machine. Orig. art. has: 9 formulas, 5 figures, and 1 table.

ASSOCIATION: Institut elektrosvariki im. Ye. O. Patona AN USSR (Institute of  
Electric Welding, Academy of Sciences UkrSSR)

SUBMITTED: 21 Jan 63

DATE ACQ: 12 Jun 63

ENCL: 00

SUB CODE: ML, SD

NO REF SOV: 005

OTHER: 000

Card

*mcs/cw*  
2/2

TIMCHENKO, V.A.; VAKHRUSHOVA, Z.N.

Clinical and bacteriological analysis of dysentery in children  
from whom isolated atypical dysentery bacilli were recovered.  
Pediatriia 39 no.3:89 My-Je '56.

(MLRA 9:9)

1. Iz kafedry detskikh bolezney i kafedry mikrobiologii Ryazanskogo  
meditsinskogo instituta imeni I.P.Pavlova.  
(DYSZENTERY)

1.2.116 2706.347.1.1.13

9/125/60/000/009/000/017  
A161/A150

AUTHORS: Gurevich, J.M., Nazarenko, O.K., Timoshenko, V.A.

TITLE: Electron-Beam Welding Unit for Refractory and Chemically Active Metals

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 9, pp. 48-53

TEXT: Detailed description is given of an electron-beam welding unit for straight and annular seams on cylindrical work up to 700 mm in diameter and 1200 mm length (Fig. 1), developed at the Electric Welding Institute in Ye.O. Paton. The chamber of 1200 mm length and 600 mm diameter is made of killed low-carbon steel 12 mm thick; the chamber inside is ground and all parts chrome-plated. The front end opens for placing work, and two shafts are passed into the chamber through the rear end cover (Fig. 2). One has a screw thread for moving the carriage with work in the chamber, and the other bears a pinion to rotate work. The electron gun is installed on the flange (see Fig. 1). Two inspection windows with lead glass are provided in the

Carriage

3/12/60/000/009/008/01;  
A:6/4130

Electron-Beam Welding Unit for Refractory and Chemically Active Metals

chamber wall. The vacuum system has a fore vacuum pump 6M-1 (7M-1), a high-vacuum 6A-5-4 (7A-5-4) unit (converted M-5" (K-5T) steam-oil pump), two fore-vacuum valves with 50 mm diameter aperture, and a 4LV-30" (5U-350) vacuum gate. The vacuum system produces rarefaction up to  $7 \cdot 10^{-6}$  mm Hg. It takes 50-60 min to replace the work and produce a vacuum. The electron gun gives a sharp-focused beam of over 500 ma and up to 20 kv. No special biological protection is necessary. The combination focusing system has a primary electrostatic lens and a secondary electromagnetic lens producing a beam of 1 mm diameter at the weld, with up to 10 kva power. The gun is lowered into the chamber through the mentioned flange; insert rings are used for varying the distance to the work. The gun is illustrated in diagram (Fig. 5). The electric system of the unit consists of two parts: feed circuit of the electron gun (Fig. 6) and auxiliary control circuits. The gun feed system includes a 50 kva transformer with secondary voltage of 20 kv; a 25 kva potential regulator smoothly adjusting the primary transformer

Card 2/8-

3/125/60/000/009/008/017  
A161/A130

Electron-Beam Welding Unit for Refractory and Chemically Active Metals

voltage between 20 and 400 volt; a Larionov kenotron rectifier with 61-C, 1/40 (71-0.1/40) kenotrons; YAH-1 (UIP-1) rectifiers feeding the gun cathode heater and the electromagnetic focusing lens, adjusting output voltage in the 20-600 volt range at a maximum current of 600 ma (one rectifier is connected to a 220 volt network through a 1:1 transformer with insulation between windings, designed for rated 30 kv tension); a heating transformer for heating the flat tungsten spiral of the cathode group (220/20 volt, 100 amp); a smoothing LC filter consisting of a 3 microfarad capacitor and a 25 henry 1 amp choke instruments (milliamperemeters, an amperemeter, a voltmeter, and a kw-meter). The control system includes magnetic starters, intermediate relays and contactors, autotransformers etc., all placed in a separate instrument box and in the operator's control board. The welding process is watched on instruments in a central instrument cabinet including auxiliary electronic equipment (the UIP-1 sources, the heating transformer, the cathode heating unit, etc.). Welding of molybdenum and

Card 7/8

S/125/60/000/009/006/017  
A161/A150

Electron-Beam Welding Unit for Refractory and Chemically Active Metals

other chemically active metals has been tried with success. There are 6 figures and 3 references, 2 of which are Soviet and 1 English.

ASSOCIATION: Ordona Trudovogo Krasnogo Znamenii Institut elektrosvarki im. Ye.O. Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" of the Academy of Sciences of the USSR)

SUBMITTED: April 29, 1960

Card-4/8

DUBENKO, G.P.; TIMCHENKO, V.A.

Automatic machine for the assembly and welding of bore bits. avtom.  
svar. 15 no.2:74-77 F '62. (MIRA 15:1)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.  
Ye.O.Patona AN USSR.  
(Electric welding--Equipment and supplies)

TIMCHENKO, V.A.; IVANOV, G.P.

Numerical programmed control of machines for hard facing and  
making intricately shaped joints. Avtom. svar. 16 no.5:34-42  
My '63. (MIRA 16:11)

1. Institut elektrosvariki imeni Patona AN UkrSSR

GUREVICH, S.M.; NAZARENKO, O.K.; TIMCHENKO, V.A.

Equipment for electron beam welding of high-melting and chemically-active metals. Avtom. svar. 13 no.9:48-53 S '60. (MIRA 13:10)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.Patona AN USSR.

(Electron beams) (Welding--Equipment and supplies)

LITVINCHUK, M.D.; BEL'FOR, M.G.; TIMCHENKO, V.A.; DUBOVETSKIY, V.Ya.

Equipment for making under flux longitudinal weld joints for mine supports. Avtom. svar. 13 no.9:71-75 S '60. (MIRA 13:10)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.Patona AN USSR.

(Electric welding--Equipment and supplies)

DUBENKO, G.P.; TIMCHENKO, V.A.

Automatic and hard facing of iron mill rolls. Avtom. svar.  
15 no.12:16-23 D '62. (MIRA 16:2)

1. Ordena Trudovogo Krasnogo Znameni institut elektrosvarki  
imeni Ye.O. Patona AN UkrSSR.  
(Rolls (Iron mills)---Maintenance and repair)  
(Hard facing)

TIMCHENKO, V. A.

Conference on the hard facing of dies. Avtom. svar. 16 no.3:96  
Mr '63. (MIRA 16:4)

(Hard facing--Congresses)  
(Dies(Metalworking)--Maintenance and repair)

L 15617-63

ENP(k)/ENP(q)/ENT(m)/BDS AFFTC/ASD PF-1 JD/HM

ACCESSION NR: AP3000840

S/0286/63/000/002/0026/0027

63

AUTHOR: Litvinshuk, M. D.; Vlasenko, P. I.; Nazarenko, O. K.; Timchenko, V. A.;  
Prosvirov, A. N.

TITLE: Installation for electron-beam welding of tubes with tube panels.  
Class H 05b; 21h, 30 sub 10, No. 152714

16

SOURCE: Byul. izobreteniy i tovarnykh znakov, no. 2, 1963, 26-27

TOPIC TAGS: electron-beam welding, automatic program control, welding

ABSTRACT: Installation for electron-beam welding of pipe with pipe panels, containing an electron-beam welding gun with magnetic deflection system, a rotating table for fastening and rotating the work piece during the welding process, and an automatic control system for sequential operation of individual mechanisms; its distinguishing feature is that in order to automate the welding process, the table is provided with two lead screws with a drive system for moving the article in two mutually-perpendicular directions when it comes time

Card 1/1

L 15647-63

ACCESSION NR: AP3000840

to weld the next tube, and the control system contains a program unit with relay elements for automatic control in accordance with a program recorded on a punched tape or some other program carrier. Orig. art. has: 1 figure (see Enclosure 1) /Abstractor's note: complete translation./

ASSOCIATION: none

SUBMITTED: 11 Sept 61

DATE ACQ: 28 May 63

ENCL: 01

SUB CODE: MD, ML

NO REF SOV: 000

OTHER: 000

Card 2/3

ACC NR: AT7007345

(A)

SOURCE CODE: UR/0000/66/000/000/0028/0042

AUTHOR: Timchenko, V. A.

ORG: None

TITLE: Programmed motion control in welding equipment

SOURCE: Soveshchaniye po avtomatizatsii protsessov mashinostroyeniya. 4th, 1964. Avtomatizatsiya protsessov svarki i obrabotki davleniyem (Automation of welding and pressure treatment processes); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1966, 28-42

TOPIC TAGS: industrial automation, automatic control equipment, welding technology, automatic welding

ABSTRACT: The author discusses programmed control of the position and trajectory of electrodes and workpiece on welding jobs where multiple-head machines are impractical. The specific factors involved in programmed control of spot welding are studied under laboratory conditions on an installation consisting of a two-coordinate manipulator and an MTP universal welder. The specific characteristics of programmed motion control are considered for welding seams with a complex configuration and surfacing punch and die sets. A simple and reliable method is described for programming in the form of a unitary code on punched paper tape. The number of pulses (holes) on a given track determines the amplitude of the corresponding motion while pulse frequency determines velocity. A specific example is given illustrating application of the proposed pro-

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ACC NR: AT7007345

gramming method. An automatic machine for punching the paper tape is described. The programming method may be used to produce any curve lying in one of the planes parallel to the two coordinate axes of the machine tool and any curved surface which may be made up of a series of these plane curves as well as some space curves. A sequential procedure for programming is recommended. The system for carrying out the program is described. Orig. art. has: 8 figures, 9 formulas.

SUB CODE: 13/ SUBM DATE: None

Card 2/2

TIMCHENKO, V.B. [Tymchenko, V.B.]

Fourth All-Union Conference on the Pathophysiology of the  
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